



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004

TIME: 11:03:13

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
 Output Set: N:\CRF4\09032004\J702578.raw

2 <110> APPLICANT: Kim, Tae-Wan
 3 Lee, Hahn-Jun
 5 <120> TITLE OF INVENTION: NOVEL MODULATORS OF AMYLOID-BETA PRODUCTION AND USES THEREOF
 7 <130> FILE REFERENCE: 5199/14
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/702,578
 C--> 9 <141> CURRENT FILING DATE: 2003-11-05
 9 <160> NUMBER OF SEQ ID NOS: 74
 11 <170> SOFTWARE: PatentIn version 3.1
 14 <210> SEQ ID NO: 1
 16 <211> LENGTH: 1345
 18 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 24 ccacccccc tccccctga ccagccatgg gggctgcggg gtttttcggc tgcactttcg 60
 26 tcgcgttcgg cccggccttc gcgctttct tgatcactgt ggctggggac ccgcttcg 120
 28 ttatcatcct ggtcgccagg gcattttct ggctggctc cctgctctg gcctctgtgg 180
 30 tctgggtcat cttggtccat gtgaccgacc ggtcagatgc ccggatctg gtcgcagg 240
 32 cattttctg gctggctccat cttggctctgg cctctgtgg ctggttcatc ttggtccatg 300
 34 tgaccgaccg gtcagatgcc cggctccagt acggcctcct gatttttgg gtcgtgtct 360
 36 ctgtccttc acaggagggtg ttccgcatttgc cctactacaa gctgcattaa aaggcagatg 420
 38 aggggttagc atcgctgagt gaggacggaa gatcaccat ctccatccgc cagatggcct 480
 40 atgtttctgg tctctccatc ggtatcatca gtgggtctt ctctgttata aatattttgg 540
 42 ctgtatgcact tggccagggt gtgggtggaa tccatggaga ctcaccctat tactcctga 600
 44 cttcagccct tctgacagca gccattatcc tgctccatac cttttgggaa gttgtgtct 660
 46 ttgatgcctg tgagaggaga cggtaactggg ctttggcct ggtgggtgg agtcacctac 720
 48 tgacatcggt actgacattc ctgaaccctt ggtatgaggc cagcctgtg cccatctatg 780
 50 cagtcaactgt ttccatgggg ctctggcct tcatacacagc tggagggtcc ctccgaagta 840
 52 ttcaagcgtcag ctcttgtta aggactgact acctggactg atcgctgtac agatcccacc 900
 54 tgcctgtcca ctgcccattga ctgagccca ccccaagcccg gggccatttgc cccacattct 960
 56 ctgtctcctt ctgcgtcggtc taccctacta cctccagggt tttgtttgt cctttgtga 1020
 58 ccgttagtct ctaagctta ccaggaggcag cctgggtca gccagtcagt gactgggtgg 1080
 60 ttgaaatctg cacttatccc caccacctgg ggacccccc ttgtgttcca ggactccccc 1140
 62 tgggtcactgt ctctgtctc accctgccc agactcacct cccttccctt ctgcaggccg 1200
 64 acggcaggag gacagtccgg tgatgggtga ttctggccctg cgcattccac ccgaggactg 1260
 66 agggaaaccta gggggaccc ctgggcctgg ggtgcctcc tgatgtctc gcccgttatt 1320
 68 tctccatctc cagttctggc cagtg 1345
 71 <210> SEQ ID NO: 2
 73 <211> LENGTH: 1346
 75 <212> TYPE: DNA
 77 <213> ORGANISM: Homo sapiens
 79 <400> SEQUENCE: 2
 81 ccacccccc tccccctga ccagccatgg gggctgcggg gtttttcggc tgcactttcg 60
 83 tcgcgttcgg cccggccttc gcgctttct tgatcactgt ggctggggac ccgcttcg 120

ENTERED

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004

TIME: 11:03:13

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
 Output Set: N:\CRF4\09032004\J702578.raw

85	ttatcatcct ggtcgcaggg gcattttct ggctggtctc cctgctcctg gcctctgtgg	180
87	tatggttcat ctgggtccat gtgaccgacc ggtcagatgc ccggatcctg gtcgcagggg	240
89	cattttctg gctggctctcc ctgctcctgg cctctgtgg ctggttcatc ttggtccatg	300
91	tgaccgaccg gtcagatgcc cggctccagt acggcctct gattttggt gtcgtgtct	360
93	ctgtccttct acaggaggtg tcccgcttg cctactacaa gctgcttaag aaggcagatg	420
95	aggggttagc atcgctgagt gaggacggaa gatcaccat ctccatccgc cagatggcct	480
97	atgtttctgg tctctccctc ggtatcatca gtgggtctt ctctgttatac aatattttgg	540
99	ctgatgcact tgggcaggt gtgggtggga tccatggaga ctcaccctat tacttcctga	600
101	cttcagccctt tctgacagca gccattatcc tgctccatac cttttggga gttgtgtct	660
103	ttgatgcctg tgagaggaga cggtaactggg ctttgggcct ggtgggtgg agtcacctac	720
105	tgacatcggg actgacattc ctgaaccctt ggtatgaggc cagcctgtg cccatctatg	780
107	cagtcactgt ttccatgggg ctctgggcct tcatacacagc tggagggtcc ctccgaagta	840
109	ttcagcgcag cctcttgtgt aaggactgac tacctggact gatcgctga cagatcccac	900
111	ctgcctgtcc actgcccattc actgagccca gcccagccc ggggtccatt gcccacattc	960
113	tctgtctct tctcgctgg ctaccctact acctccaggg ttttgccttgc tccctttgtg	1020
115	accgttagc tctaagctt accaggagca gcctgggttc agccagtcag tgactgggtgg	1080
117	gtttgaatct gcacttatcc ccaccacctg gggacccctt ttttgccttgc aggactcccc	1140
119	ctgtgtca gtcgtgtctt caccctggcc aagactcacc tccctttccc tctgcaggcc	1200
121	gacggcagga ggacagtccg gtatgggtt attctgcctt gcgcatccca cccgaggact	1260
123	gagggAACCTT aggggggacc cctggcctg ggggtccctc ctgatgtctt cggccctgtat	1320
125	ttctccatct ccaggctctgg acagtgc	1346
128	<210> SEQ ID NO: 3	
130	<211> LENGTH: 1007	
132	<212> TYPE: DNA	
134	<213> ORGANISM: Homo sapiens	
136	<400> SEQUENCE: 3	
138	ccacccccc tccacacccatgca ccagccatgg gggctgcggg gttttcggc tgactttcg	60
140	tgcgttctgg cccggcccttc ggcgtttct tgatcactgt ggctggggac ccgcttcgcg	120
142	ttatcatcct ggtcgcaggg gcattttct ggctggtctc cctgctcctg gcctctgtgg	180
144	tctggttcat ctgggtccat gtgaccgacc ggtcagatgc ccggatcctg gtcgcagggg	240
146	cattttctg gctggctctcc ctgctcctgg cctctgtgg ctggttcatc ttggtccatg	300
148	tgaccgaccg gtcagatgcc cggctccagt acggcctct gattttggt gtcgtgtct	360
150	ctgtcctct acaggaggtg tcccgcttg cctactacaa gctgcttaag aaggcagatg	420
152	aggggttagc atcgctgagt gaggacggaa gatcaccat ctccatccgc cagatggcct	480
154	atgtttctgg tctctccctc ggtatcatca gtgggtctt ctctgttatac aatattttgg	540
156	ctgatgcact tgggcaggt gtgggtggga tccatggaga ctcaccctat tacttcctga	600
158	ttcagccctt tctgacagca gccattatcc tgctccatac cttttggga gttgtgtct	660
160	ttgatgcctg tgagaggaga cggtaactggg ctttgggcct ggtgggtgg agtcacctac	720
162	tgacatcggg actgacattc ctgaaccctt ggtatgaggc cagcctgtg cccatctatg	780
164	cagtcactgt ttccatgggg ctctgggcct tcatacacagc tggagggtcc ctccgaagta	840
166	ttcagcgcag cctcttgtgc cgacggcagg aggacagtgc ggtatgggtt tattctgccc	900
168	tgcgcatccc acccgaggac tgagggaaacc tagggggac ccctgggcct ggggtccct	960
170	cctgatgtcc tcgcctgtta tttctccatc tccagttctg gacagtgc	1007
173	<210> SEQ ID NO: 4	
175	<211> LENGTH: 254	
177	<212> TYPE: PRT	
179	<213> ORGANISM: Homo sapiens	
181	<400> SEQUENCE: 4	
184	Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004
TIME: 11:03:13

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
Output Set: N:\CRF4\09032004\J702578.raw

185 1 5 10 15
188 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
189 20 25 30
192 Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
193 35 40 45
196 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
197 50 55 60
200 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
201 65 70 75 80
204 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
205 85 90 95
208 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile
209 100 105 110
212 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
213 115 120 125
216 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
217 130 135 140
220 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
221 145 150 155 160
224 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
225 165 170 175
228 Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu
229 180 185 190
232 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
233 195 200 205
236 Trp Tyr Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met
237 210 215 220
240 Gly Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
241 225 230 235 240
245 Arg Ser Ser Cys Val Arg Thr Asp Tyr Leu Asp Pro Ser Phe
246 245 250
249 <210> SEQ ID NO: 5
251 <211> LENGTH: 247
253 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
257 <400> SEQUENCE: 5
259 Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro
260 1 5 10 15
263 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
264 20 25 30
267 Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
268 35 40 45
271 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
272 50 55 60
275 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
276 65 70 75 80
279 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
280 85 90 95
283 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004

TIME: 11:03:13

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
 Output Set: N:\CRF4\09032004\J702578.raw

284 100 105 110
 287 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
 288 115 120 125
 291 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
 292 130 135 140
 295 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
 296 145 150 155 160
 299 Ala Phe Leu Thr Ala Ala Ile Leu Leu His Thr Phe Trp Gly Val
 300 165 170 175
 303 Val Phe Phe Asp Ala Cys Glu Arg Arg Tyr Trp Ala Leu Gly Leu
 304 180 185 190
 307 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro
 308 195 200 205
 311 Trp Tyr Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met
 312 210 215 220
 315 Gly Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
 316 225 230 235 240
 319 Arg Ser Leu Leu Cys Lys Asp
 320 245
 324 <210> SEQ ID NO: 6
 326 <211> LENGTH: 269
 328 <212> TYPE: PRT
 330 <213> ORGANISM: Homo sapiens
 332 <400> SEQUENCE: 6
 334 Met Gly Ala Ala Val Phe Phe Gly Cys Thr Phe Val Ala Phe Gly Pro
 335 1 5 10 15
 338 Ala Phe Ala Leu Phe Leu Ile Thr Val Ala Gly Asp Pro Leu Arg Val
 339 20 25 30
 342 Ile Ile Leu Val Ala Gly Ala Phe Phe Trp Leu Val Ser Leu Leu Leu
 343 35 40 45
 346 Ala Ser Val Val Trp Phe Ile Leu Val His Val Thr Asp Arg Ser Asp
 347 50 55 60
 350 Ala Arg Leu Gln Tyr Gly Leu Leu Ile Phe Gly Ala Ala Val Ser Val
 351 65 70 75 80
 354 Leu Leu Gln Glu Val Phe Arg Phe Ala Tyr Tyr Lys Leu Leu Lys Lys
 355 85 90 95
 358 Ala Asp Glu Gly Leu Ala Ser Leu Ser Glu Asp Gly Arg Ser Pro Ile
 359 100 105 110
 362 Ser Ile Arg Gln Met Ala Tyr Val Ser Gly Leu Ser Phe Gly Ile Ile
 363 115 120 125
 367 Ser Gly Val Phe Ser Val Ile Asn Ile Leu Ala Asp Ala Leu Gly Pro
 368 130 135 140
 371 Gly Val Val Gly Ile His Gly Asp Ser Pro Tyr Tyr Phe Leu Thr Ser
 372 145 150 155 160
 375 Ala Phe Leu Thr Ala Ala Ile Ile Leu Leu His Thr Phe Trp Gly Val
 376 165 170 175
 379 Val Phe Phe Asp Ala Cys Glu Arg Arg Arg Tyr Trp Ala Leu Gly Leu
 380 180 185 190
 383 Val Val Gly Ser His Leu Leu Thr Ser Gly Leu Thr Phe Leu Asn Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004

TIME: 11:03:13

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
 Output Set: N:\CRF4\09032004\J702578.raw

384 195 200 205
 387 Trp Tyr Glu Ala Ser Leu Leu Pro Ile Tyr Ala Val Thr Val Ser Met
 388 210 215 220
 391 Gly Leu Trp Ala Phe Ile Thr Ala Gly Gly Ser Leu Arg Ser Ile Gln
 392 225 230 235 240
 395 Arg Ser Leu Leu Cys Arg Arg Gln Glu Asp Ser Arg Val Met Val Tyr
 396 245 250 255
 399 Ser Ala Leu Arg Ile Pro Pro Glu Asp Pro Ser Phe Asx
 400 260 265
 403 <210> SEQ ID NO: 7
 405 <211> LENGTH: 1923
 407 <212> TYPE: DNA
 409 <213> ORGANISM: Homo sapiens
 411 <400> SEQUENCE: 7
 413 cccctccat ttgcctgtcc tggtcaggcc cccacccccc ttcccacctg accagccatg 60
 415 ggggctgcgg tggttttcgg ctgcacttgc gtgcgttgc gcccggcctt cgccgttttc 120
 417 ttgatcaactg tggctgggaa cccgcttcgc gttatcatcc tggtcgcagg ggcatttttc 180
 419 tggctggct ccctgctcct ggcctctgtg gtctggttca tcttggtcca tgtgaccgac 240
 421 cggtcagatg cccggtccca gtacggcctc ctgatTTTG gtgtctgtgt ctctgtcctt 300
 423 ctacaggagg tggccgttgc tgcctactac aagctgctta agaaggcaga tgaggggtta 360
 425 gcatcgctga gtgaggacgg aagatcaccc atctccatcc gccagatggc ctatgtttct 420
 427 ggtctctcct tcggatcatc cagtggtgtc ttctctgtta tcaatatttt ggctgtatgca 480
 429 cttggccag gtgtgggtgg gatccatggaa gactcaccct attacttcct gacttcagcc 540
 431 tttctgacag cagccattat cctgctccat acctttggg gagttgtgtt ctttgcgtcc 600
 433 tgtgagagga gacggtaactg ggcttgggc ctgggtggg ggagtcaccc actgacatcg 660
 435 gactgacat tcctgaaccc ctggatgag gcccgcctgc tgcccatcta tgcaactcact 720
 437 gttccatgg ggctctggc cttcatcaca gctggagggt ccctccgaag tattcagcgc 780
 439 agctttgtg taaggactga ctacctggac tgatcgctg acagatccca cctgcctgtc 840
 441 cactgccccat gactgagccc agccccagcc cgggggtccat tgcccacatt ctctgtctcc 900
 443 ttctcgctgg taccccccac tacctccagg gttttgtttt gtcctttgt gaccgttagt 960
 445 ctctaagctt taccaggagg agcctgggtt cagccagtca gtgactgggt ggtttgaatc 1020
 447 tgcacttatac cccaccaccc ggggacccccc ttgttgtgtc caggactccc cctgtgtcag 1080
 449 tgctctgctc tcaccctgccc caagactcac ctcccttccc ctctgcaggc cgacggcagg 1140
 451 aggacagtgc ggtgtatggt tattctgccc tgccatccc acccgaggac tgagggaaacc 1200
 453 taggggggac ccctggccct ggggtgcct cctgatgtcc tgccctgtta tttctccatc 1260
 455 tccagttctg gacagtgcag gttgccaaga aaagggaccc agtttagcca ttgccctgg 1320
 457 gatgaaattt atggaggctc aaggatagat gagctctgag tttctcgttca ctccctcaag 1380
 459 actggacatc ttggctttt ttcaggcct gagggggaaac cattttttgt gtgataaata 1440
 461 ccctaaactg ctttttttc ttttttggagg tggggggagg gaggaggat attgaaactc 1500
 463 ttctaacctc cttggcttat atttctctc ctgcgttgc ttctcatggc tgggttcatt 1560
 465 tcggccctt tctcccttggt cccagacccctt gggggaaagg aaggaagtgc atgtttggga 1620
 467 actggcatta ctggaaactaa tggtttaac ctcccttaacc accagcatcc ctctctccc 1680
 469 caaggtgaag tggagggtgc tgggtgc tggccactcc agagctgcag tgccactgtga 1740
 471 ggagtcagac taccatgaca tggtagggaa ggaggggaga ttttttgc ttttttaatt 1800
 473 ggggtgtggg agggggcgggg aggttttcta taaactgtat cattttctgc tgaggggtgga 1860
 475 gtgtcccatc ctttaatca aggtgattgt gattttgact aataaaaaaag aatttgcataa 1920
 477 aaa 1923
 480 <210> SEQ ID NO: 8
 482 <211> LENGTH: 251

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/702,578

DATE: 09/03/2004

TIME: 11:03:14

Input Set : A:\Columbia 5199-14 6-20.ST25.txt
Output Set: N:\CRF4\09032004\J702578.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date